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10/755,545
Sequence alignment B
SEQ ID NO:2
AAY01098
TD
     AAY01098 standard; protein; 263 AA.
ΧX
     AAY01098;
AC
XX
DТ
     15-JUN-2007 (revised)
DT
     11-JUN-1999 (first entry)
XX
DE
     Human follistatin-3 protein sequence.
XX
     Follistatin-3; human; cancer; cellular growth disorder; liver cirrhosis;
KW
     differentiation disorder; reproductive system disorder; male sterility;
KW
KW
     activin-induced differentiation inhibitor; gonadotroph adenoma; hepatoma;
     osteosarcoma; idiopathic pulmonary fibrosis; pulmonary fibrosis; tumour;
KW
KW
     fibrotic disorder; osteoarthritis; haematopoiesis; infectious disease;
     sepsis; cancer; silicosis; sarcoidosis; endotoxic shock; therapy; BOND_PC; follistatin-like 3 glycoprotein; follistatin-related protein;
KW
KM
     follistatin-like 3 glycoprotein [Homo sapiens]; FSTL3; FLRG; FSRP;
     follistatin-like 3 glycoprotein precursor;
KW
KW
     follistatin-like 3 glycoprotein;
     follistatin-like 3 glycoprotein precursor [Homo sapiens];
KW
KW
     follistatin-like 3 (secreted glycoprotein), isoform CRA_a;
KW
     follistatin-like 3 (secreted glycoprotein), isoform CRA_a [Homo sapiens];
KW
     FSTL3 [Homo sapiens]; follistatin-like 3 (secreted glycoprotein);
     Follistatin-like 3 (secreted glycoprotein) [Homo sapiens];
ΚW
     follistatin-related protein FLRG;
KW
     follistatin-related protein FLRG [Homo sapiens]; GO5615; GO17106;
     G030514; G048185; G08151.
KW
XX
OS
     Homo sapiens.
XX
     W09910364-A1.
ΡN
XX
PD
     04-MAR-1999.
XX
PF
     27-AUG-1998;
                    98WO-US017710.
XX
PR
     29-AUG-1997;
                    97US-0056248P.
XX
     (HUMA-) HUMAN GENOME SCI INC.
PA
XX
     Ruben SM, Duan R;
PΤ
XX
DR
     WPI; 1999-204646/17.
     N-PSDB; AAX28124.
DR
DR
     PC:NCBI; qi5031701.
DR
     PC:SWISSPROT; 095633.
XX
PT
     New follistatin-3 polypeptides and nucleic acids - used to develop
PT
     products for treating e.g. cancers, male sterility, wound healing,
PT
     fibrotic disorders, angiogenesis and autoimmune, inflammatory and
PT
     infective diseases.
XX
     Claim 18; Fig 1; 109pp; English.
PS
XX
CC
     This sequence is the follistatin-3 (FS3) protein of the invention. The
CC
     products can be used to treat cancers and other cellular growth and
     differentiation disorders as well as disorders of the reproductive
CC
CC
     system. FS3 can be used or to treat male sterility. FS3 may also be used
CC
     to inhibit the activin-induced differentiation of follicular granulosa
CC
     cells. FS3 may be used therapeutically to regulate autocrine endothelial
CC
     cell activity and, as a result, induce angiogenesis. Treatment to
CC
     increase the expression or the presence of FS3 may be used to inhibit the
CC
     progression of gonadotroph adenomas, osteosarcomas, hepatomas, and other
     tumours and cancers. FS3 may also be used to treat other fibrotic
CC
CC
     disorders including liver cirrhosis, osteoarthritis and pulmonary
     fibrosis. It may also be used to regulate haematopoiesis, and to treat
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sepsis. Antagonists of FS3 may be used to treat a deficiency in FSH,
CC
    oestrogen and other hormones, to prevent or inhibit or reduce the
CC
    production of spermatozoa, to modulate gonadal androgen biosynthesis. FS3
CC
    antagonists may also be used to treat infectious diseases including
CC
    silicosis, sarcoidosis, idiopathic pulmonary fibrosis by altering the
CC
    activation state of mononuclear phagocytes, to treat idiopathic hyper-
CC
    eosinophilic syndrome by preventing eosinophil production and activation.
CC
    Endotoxic shock may also be treated by FS3 antagonists by preventing the
CC
    activation of macrophages
CC
CC
    Revised record issued on 15-JUN-2007 : Enhanced with precomputed
    information from BOND.
CC
XX
SQ.
    Sequence 263 AA;
 Query Match 100.0%; Score 1492; DB 2; Length 263; Best Local Similarity 100.0%; Pred. No. 3.3e-104;
 Matches 263; Conservative 0; Mismatches
                                           0; Indels
                                                       0: Gaps
          1 \ \mathsf{MRPGAPGPLWPLPWGALAWAVGFVSSMGSGNPAPGGVCWLQQGQEATCSLVLQTDVTRAE} \ \ 60
Ov
            1 MRPGAPGPLWPLPWGALAWAVGFVSSMGSGNPAPGGVCWLQQGQEATCSLVLQTDVTRAE 60
         61 CCASGNIDTAWSNLTHPGNKINLLGFLGLVHCLPCKDSCDGVECGPGKACRMLGGRPRCE 120
Qу
            Db
         61 CCASGNIDTAWSNLTHPGNKINLLGFLGLVHCLPCKDSCDGVECGPGKACRMLGGRPRCE 120
        121 CAPDCSGLPARLQVCGSDGATYRDECELRAARCRGHPDLSVMYRGRCRKSCEHVVCPRPQ 180
0.v
            121 CAPDCSGLPARLQVCGSDGATYRDECELRAARCRGHPDLSVMYRGRCRKSCEHVVCPRPQ 180
Db
        181 SCVVDQTGSAHCVVCRAAPCPVPSSPGQELCGNNNVTYISSCHMRQATCFLGRSIGVRHA 240
QУ
            Db
        181 SCVVDQTGSAHCVVCRAAPCPVPSSPGQELCGNNNVTYISSCHMRQATCFLGRSIGVRHA 240
        241 GSCAGTPEEPPGGESAEEEENFV 263
Οv
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241 GSCAGTPEEPPGGESAEEEENFV 263